

FACILITY STATUS CHANGE FORM

Date Submitted: June 14, 2012 Originator: John Harrie Phone: 509.308.9935	Area: 300 Area Facility ID: 307 Retention Basins Action Memorandum: Action Memorandum #3	Control #: D4-300-058
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This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- ☐ All D4 operations required by action memo complete.
- ☒ D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

Deactivation: Utility isolations were performed on the facility prior to beginning facility decontamination.

Hazardous material removal and waste disposition was performed in accordance with *Removal Action Work for 300 Area Facilities*, DOE/RL-2004-77, Revision 2 (RAWP). Radiologically contaminated piping was stabilized with grout.

Demolition: Demolition of the 307 Retention Basins was completed in June of 2012. The basins debris were removed and disposed of at ERDF. The demolition was performed with Radiological and Industrial Hygiene controls.

Description of Deferral (as applicable):

Final closure surveys and backfill is deferred to completion of on-going remediation of the 340 complex and associated waste sites.

Section 2: Underlying Soil Status

- ☐ No waste site(s) present. No additional actions anticipated.
- ☒ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- ☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.

Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

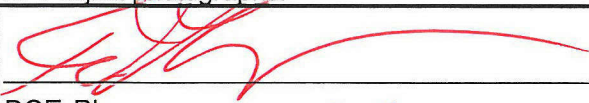

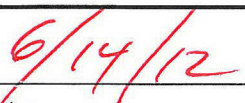
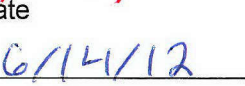
The 307 Basins were removed in June of 2012. The excavation remains open.

Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

The 340 Complex, 300-RRLWS, 300-RLWS, 300-214, 300-15, UPR-300-1, UPR-300-2 and UPR-300-41.

Section 3: List of Attachments

1. Facility information (building history, characterization and identification of documented waste sites).
2. Project photographs.

 DOE-RL	 Lead Regulator	<input checked="" type="checkbox"/> EPA	<input type="checkbox"/> Ecology	 Date 6/14/12	 Date 6/14/12
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FACILITY STATUS CHANGE FORM

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Attachment 1: Facility Information

Building History:

The 307 Retention Basins were part of the 340 Complex – Waste Neutralization Facility located north of the 308 Building on the eastern portion of the 300 Area.

The 307 Retention Basins, constructed in 1953, were comprised of four, 38' x 22' x 10' deep, open, epoxy-coated concrete basins with 25,00-gallon nominal capacity (50,000-gallon total) that were fed by process piping from the 308, 325, 326, 327 and 329 Buildings through the retention process sewer (RPS) or the Diversion Waste System. In this system, liquid process wastes with the potential to be contaminated were disposed of to the RPS and routed to the (north side) 307 Retention basins for sampling (sample pit northwest of retention basin #1). If levels above release limits were found, the effluents in the 307 Retention Basins were pumped into the 340 Building radioactive liquid waste sewer tanks, and either transported by rail or truck tanker to the 200 Area Double Shell Tank System (DST).

All facilities tied to the RPS were equipped with in-line beta-gamma detectors at diverter stations, except 308. From 1953 to 1963 retention waste below discharge levels was released to the 307 Trenches (WIDS 316-3). Between 1963 and 1975 effluent was released to the process ponds (WIDS 316-1 and 316-2). After 1975 until 1994, retention basin effluent was discharged to the WIDS 316-5 Process Trenches. After 1995, retention basin effluent below discharge limits was discharged to the 300 Area Treated Effluent Disposal Facility (TEDF). With the retirement of the RLWS in 1998, waste above the discharge limits was held in the basins until it was transported to the 200 Area DST.

The 307 basins were deactivated in December of 2011.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 307 Basins.

Table 1. Summary of Characterization Surveys at 307.

Type	Date	Documented In	Results Summary
Pre-Demolition			
Asbestos	May 16, 2011	CNN # 158553	Limited to pipe insulation at the 307 basins and silo cover – No ACM detected.
IH Surveys and Beryllium Characterization	January 6, 2011	CNN # 154711	307 posted as Beryllium Controlled Facility (BCA) no samples collected.
Radiological Surveys	August 14, 2007 February 15, 2011	RSR-J070150 RSR-300PS-11-00667	Due to accessibility/safety issues, sediment sample data was used for radiological characterization. The basins were posted as CA.

Associated WIDs sites:

Documented Waste Sites associated with 307 consist of the following:

The 340 Complex, 300-RRLWS, 300-RLWS, 300-214, 300-15, UPR-300-1, UPR-300-2 & UPR-300-41

Anomalies Discovered During Demolition

No anomalies were encountered during the 307 demolition.

Attachment 2: Project Photographs

Figure 1: 340 Complex in March of 1993 (looking southeast)



North

Figure 2. Looking northeast at the 307 Basins on July 13, 2006.



Figure 3. Looking west at the 307 Basins during demolition on March 8, 2012.



Figure 4. Looking east at the 307 Basins Excavation following demolition and load-out on June 14, 2012.

